



IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

STENTIFORD

Atty. Ref.: LSN-36-1989

Serial No. 10/581,027

TC/A.U.: Unknown

Filed: May 30, 2006

Examiner:

For: IMAGE PROCESSING

* * * * *

January 26, 2007

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

Attention is directed to the following copending related applications (which are also related to applicant's earlier now issued US Patent No. 6,934,415):

<u>Serial No.</u>	<u>Filed</u>	<u>Inventor</u>
10/507,598	09/14/2004	Stentiford
10/537,540	06/03/2005	Stentiford
10/506,181	08/31/2004	Stentiford

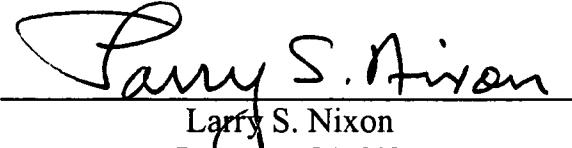
The attached PTO SB/08a identifies documents including all prior art cited in any foreign counterpart of these cases, from applicant's own searches, the inventor's own papers on the subject. A copy of each non-US patent document newly cited therein is also attached.

Official consideration and citation of all identified documents is requested.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By:



Larry S. Nixon
Reg. No. 25,640

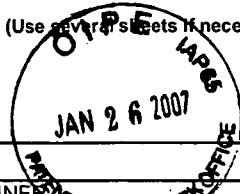
LSN:vc

901 North Glebe Road, 11th Floor
Arlington, VA 22203-1808
Telephone: (703) 816-4000
Facsimile: (703) 816-4100

Sheet 1 of 4

INFORMATION DISCLOSURE
CITATION

(Use several sheets if necessary)



Atty. Docket No.

36-1989

Serial No.

10/581,027

Applicant

STENTIFORD

Filing Date

May 30, 2006

TC/A.U.

Unknown

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/JC/	5303885	04/1994	Wade			
	5113454	05/1992	Marcantonio et al.			
	5200820	04/1993	Gharavi			
	5790413	08/1998	Bartusiaik et al.			
	5825016	10/1998	Nagahata et al.			
	5867813	02/1999	Di Pietro et al.			
	5978027	11/1999	Takeda			
	6094507	07/2000	Monden			
	6111984	08/2000	Fukasawa			
	6240208 B1	05/2001	Garakani et al.			
	6266676 B1	07/2001	Yoshimura et al.			
	6282317 B1	08/2001	Luo et al.			
	6304298 B1	10/2001	Steinberg et al.			
	6389417 B1	05/2002	Shin et al.			
	6778699 B1	08/2004	Gallagher			
	6934415 B2	08/2005	Steintiford			
	2001/013895 A1	08/2001	Aizawa et al.			
	2002/0081033 A1	06/2002	Stentiford			
	2002/0126891 A1	09/2002	Osberger			
	2005/0031178A1	02/2005	Park			
	2005/0074806 A1	04/2005	Skierczynski et al.			
	2005/0169535 A1	08/2005	Stentiford			
	2006/0050993 A1	03/2006	Stentiford			
/JC/	4646352	02/1987	Asai et al.			

FOREIGN PATENT DOCUMENTS

TRANSLATION

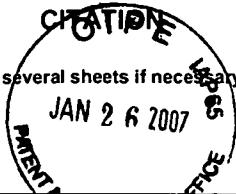
DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
/JC/ 1126411 A1	08/2001	Europe				
1286539 A1	02/2003	Europe				
0098152	01/1984	Europe				
3-238533	10/1991	Japan				
1417721	12/1975	Great Britain				
WO 00/33569	06/2000	WIPO				
WO 01/31638 A1	05/2001	WIPO				
WO 01/61648 A2	08/2001	WIPO				
WO 02/21446 A1	03/2002	WIPO				
WO 02/098137 A1	12/2002	WIPO				
WO 03/081523 A1	10/2003	WIPO				
/JC/ WO 03/081577 A1	10/2003	WIPO				

*Examiner	/Jose Couso/	Date Considered	02/23/2009
-----------	--------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Sheet 2 of 4

INFORMATION DISCLOSURE



(Use several sheets if necessary)

Atty. Docket No.	Serial No.
36-1989	10/581,027
Applicant	
STENTIFORD	
Filing Date	TC/A.U.
May 30, 2006	Unknown

/JC/	WO 2004/057464 A1	05/2004	WIPO					
	WO 2004/057493 A2	08/2004	WIPO					
	WO 2005/057490 A2	06/2005	WIPO					
	WO 2006/030173 A1	03/2006	WIPO					
	WO 82/01434	04/1982	WIPO					
	WO 99/05639	02/1999	WIPO					
	WO 99/60517	11/1999	WIPO					
	WO 90/03012	03/1990	WIPO					
/JC/	2002-50066	02/2002	Japan					

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

/JC/	International Search Report dated June 12, 2003
	International Search Report dated March 18, 2002
	European Search Report dated January 8, 2003 for RS 018248 GB
	European Search Report dated January 9, 2003 for RS 108249 GB
	European Search Report dated January 9, 2003 for RS 108251 GB
	European Search Report dated January 8, 2003 for RS 108250 GB
	Lutton et al., "Contribution to the Determination of Vanishing Points Using Hough Transform", 1994 IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, Vol. 16, No. 4, April 1994, pages 430-438
	McLean et al., "Vanishing Point Detection by Line Clustering", IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, Vol. 17, No. 11, November 1995, pages 1090-1095
	Koizumi et al., "A New Optical Detector for a High-Speed AF Control", 1996 IEEE, Pages 1055-1061
	Itti et al., "Short Papers: A Model of Saliency-Based Visual Attention for Rapid Scene Analysis", IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, Vol. 20, No. 11, November 1998, pages 1254-1259
	Shufelt, "Performance Evaluation and Analysis of Vanishing Point Detection Techniques", IN ANALYSIS AND MACHINE INTELLIGENCE, Vol. 21, No. 3, March 1999, pages 282-288
	Wixson, "Detecting Salient Motion by Accumulating Directionally-Consistent Flow", IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, Vol. 22, No. 8, August 2000, pages 774-780
	Privitera et al., "Algorithms for Defining Visual Regions-of-Interest: Comparison with Eye Fixations", IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, Vol. 22, No. 9, September 2000, pages 970-982
	Smeulders et al., "Content-Based Image Retrieval at the End of the Early Years", IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, Vol. 22, No. 12, December 2000, pages 1349-1380
	Vailaya et al., "Image Classification for Content-Based Indexing", IEEE TRANSACTIONS ON IMAGE PROCESSING, Vol. 10, No. 1, January 2001, pages 117-130
	Almansa et al., "Vanishing Point Detection Without Any A Priori Information", IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, Vol. 25, No. 4, April 2003, pages 502-507
	Zhao et al., "Morphology on Detection of Calcifications in Mammograms", 1992 IEEE, pages III-129-III-132
	Santini et al., "Similarity Matching", PROC 2 ND ASIAN CONF ON COMPUTER VISION, pages II 544-548, IEEE, 1995
/JC/	Rui et al., "A Relevance Feedback Architecture for Content-Based Multimedia Information Retrieval Systems", 1997 IEEE, pages 82-89

*Examiner	/Jose Couso/	Date Considered	02/23/2009
-----------	--------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Sheet 3 of 4

JAN 26 2007

INFORMATION DISCLOSURE
CITATION REQUEST

(Use several sheets if necessary)

Atty. Docket No.

Serial No.

36-1989

10/581,027

Applicant

STENTIFORD

Filing Date

TC/A.U.

May 30, 2006

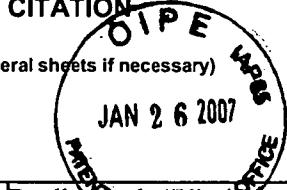
Unknown

/JC/	Walker et al., "Locating Salient Facial Features Using Image Invariants", PROC. 3 RD IEEE INTERNATIONAL CONFERENCE ON AUTOMATIC FACE AND GESTURE RECOGNITION, 1998, pages 242-247
	Mahlmeister et al., "Sample-guided Progressive Image Coding", PROC. FOURTEENTH INT. CONFERENCE ON PATTERN RECOGNITION, 16-20 August 1998, pages 1257-1259, Vol. 2
	Osberger et al., "Automatic Identification of Perceptually Important Regions in an Image", PROC. FOURTEENTH INT. CONFERENCE ON PATTERN RECOGNITION, 16-20, August 1998, pages 701-704, Vol. 1
	Buhmann et al., "Dithered Colour Quantisation", EUROGRAPHICS 98, September 1998, http://opus.fu-bs.de/opus/volltexte/2004/593/pdf/TR-tubs-cq-1998-01.pdf
	Rui et al., "Relevance Feedback: A Power Tool for Interactive Content-Based Image Retrieval", IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, Vol. 8, No. 5, September 1998, pages 644-655
	Gallet et al., "A Model of the Visual Attention to Speed up Image Analysis", PROCEEDINGS OF THE 1998 IEEE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP-98), Chicago, Illinois, October 4-7, 1998, IEEE COMPUTER SOCIETY, 1998, ISBN-08186-8821-1, Vol. 1, pages 246-250
	Curtis et al., "Metadata – The Key to Content Management Services", 3 RD IEEE METADATA CONFERENCE, April 6-7, 1999
	Stentiford, "Evolution: The Best Possible Search Algorithm?", BT TECHNOLOGY JOURNAL, Vol. 18, NO. 1, January 2000, (Movie Version)
	Rother, "A New Approach for Vanishing Point Detection in Architectural Environments", 11 TH British Machine Vision Conference, Bristol, UK, September 2000, http://www.bmva.ac.uk/bmvc/2000/papers/p39.pdf
	Raeth et al., "Finding Events Automatically In Continuously Sampled Data Streams Via Anomaly Detection", PROCEEDINGS OF THE IEEE 2000 NATIONAL AEROSPACE AND ELECTRONICS CONFERENCE, NAECON, 10-12 October 2000, pages 580-587
	Sebastian et al., "Recognition of Shapes by Editing Shock Graphs", PROC. ICCV 2001, pages 755-762
	Stentiford et al., "Automatic Identification of Regions of Interest with Application to the Quantification of DNA Damage in Cells", HUMAN VISION AND ELECTRONIC IMAGING VII, B.E. Rogowitz, T.N. Pappas, Editors, PROC. SPIE Vol. 4662, pages 244-253, San Jose, 20-26 January 2002
	Xu et al., "Video Summarization and Semantics Editing Tools", STORAGE AND RETRIEVAL FOR MEDIA DATABASES, PROC. SPIE, Vol. 4315, San Jose, 21-26 January 2001
	Stentiford, "An Estimator for Visual Attention Through Competitive Novelty with Application to Image Compression", PICTURE CODING SYMPOSIUM 2001, 25-27 April 2001, Seoul, Korea, pages 101-104, http://www.ee.ucl.ac.uk/-fstentif/PCS2001-pdf
	Stentiford, "An Evolutionary Programming Approach to the Simulation of Visual Attention", CONGRESS ON EVOLUTIONARY COMPUTATION, Seoul, May 27-30, 2001, pages 851-858
	Cantoni et al., "Vanishing Point Detection: Representation Analysis and New Approaches", 11 TH INT. CONF. ON IMAGE ANALYSIS AND PROCESSING, PALERMO, ITALY, 26-28 September 2001
	Ouerhani et al., "Adaptive Color Image Compression Based on Visual Attention", PROC. 11 TH INT. CONFERENCE ON IMAGE ANALYSIS AND PROCESSING", 26-28 September 2001, pages 416-421
	Russ et al., "Smart Realisation: Delivering Content Smartly", J. INST. BT ENGINEERS, Vol. 2, Part 4, pages 12-17, October-December 2001
↓	Bradley et al., "JPEG 2000 and Region of Interest Coding", DIGITAL IMAGING COMPUTING – TECHNIQUES AND APPLICATIONS, Melbourne, Australia, Jan 21-22, 2002
/JC/	Roach et al., "Recent Trends in Video Analysis: A Taxonomy of Video Classification Problems", 6 TH IASTED INT. CONF. ON INTERNET AND MULTIMEDIA SYSTEMS AND APPLICATIONS, Hawaii, August 12-14, 2002, pages 348-353

*Examiner	/Jose Couso/	Date Considered	02/23/2009
-----------	--------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Sheet 4 of 4

INFORMATION DISCLOSURE
CITATION

(Use several sheets if necessary)

Atty. Docket No.	Serial No.
36-1989	10/581,027
Applicant	
STENTIFORD	
Filing Date	TC/A.U.
May 30, 2006	Unknown

/JC/	Bradley et al., "Visual Attention for Region of Interest Coding in JPEG 2000", JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, Vol. 14, pages 232-250, 2003
	Stentiford, "An Attention Based Similarity Measure with Application to Content-Based Information Retrieval", STORAGE AND RETRIEVAL FOR MEDIA DATABASES 2003, M.M. Yeung, R.W. Lienhart, C-S Li, Editors, PROC SPIE Vol. 5021, 20-24 January, Santa Clara, 2003
	Stentiford, "The Measurement of the Salience of Targets and Distractors through Competitive Novelty", 26 th EUROPEAN CONFERENCE ON VISUAL PERCEPTION, PARIS, September 1-5, 2003, (Poster)
	Stentiford, "An Attention Based Similarity Measure for Fingerprint Retrieval", PROC. 4 TH EUROPEAN WORKSHOP ON IMAGE ANALYSIS FOR MULTIMEDIA INTERACTIVE SERVICES, PAGES 27-30, London, April 9-11, 2003
	Okabe et al., "Object Recognition Based on Photometric Alignment Using RANSAC, PROCEEDINGS OF THE 2003 IEEE COMPUTER SOCIETY CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR'03), Vol. 2, pages 221-228, 19-20 June 2003
	Oyekoya et al., "Exploring Human Eye Behaviour Using a Model of Visual Attention", INTERNATIONAL CONFERENCE ON PATTERN RECOGNITION 2004, Cambridge, 23-26 August 2004, pages 945-948
	Stentiford, "A Visual Attention Estimator Applied to Image Subject Enhancement and Colour and Grey Level Compression", INTERNATIONAL CONFERENCE ON PATTERN RECOGNITION 2004, Cambridge, 23-26 August 2004, pages 638-641
	Rasmussen, "Texture-Based Vanishing Point Voting for Road Shape Estimation", British Machine Vision Conference, Kingston, UK, September 2004, http://www.bmva.ac.uk/bmvc/2004/papers/paper_261.pdf
	Finlayson et al., "Illuminant and Device Invariant Colour Using Histogram Equalisation", PATTERN RECOGNITION, Vol. 38, No. 2 (Feb. 2005), pages 179-190
	Stentiford, "Attention Based Facial Symmetry Detection", INTERNATIONAL CONFERENCE ON ADVANCES IN PATTERN RECOGNITION, Bath, UK, 22-25 August 2005
	Stentiford, "Attention Based Symmetry Detection in Colour Images", IEEE INTERNATIONAL WORKSHOP ON MULTIMEDIA SIGNAL PROCESSING, Shanghai, China, October 30 – November 2, 2005
	Wang et al., "Efficient Method for Multiscale Small Target Detection from a Natural Scene", 1996 SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS, March 1996, pages 761-768
	Rohwer et al., "The Theoretical and Experimental Status of the n-Tuple Classifier", NEURAL NETWORKS, Vol. 11, No. 1, pages 1-14, 1998
	Brown, A Survey of Image Registration Techniques, ACM COMPUTING SURVEYS, Vol. 24, No. 4, December 1992, pages 325-376
▼	Zhao et al., "Face Recognition: A Literature Survey", CVLK Technical Report, University of Maryland, October 2000, ftp://ftp.cfar.umd.edu/TRs/CVL-Reports-2000/TR4167-zhao.ps.qz
/JC/	Stentiford et al., "An Evolutionary Approach to the Concept of Randomness", THE COMPUTER JOURNAL, pages 148-151, March 1972

*Examiner	/Jose Couso/	Date Considered	02/23/2009
-----------	--------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.